

What Is Claimed Is:

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1 1. A Thin-Film Transistor array structure, comprising:  
2 a Thin-Film Transistor;  
3 a data line coupled to a drain electrode of the Thin-  
4 Film Transistor;  
5 a scanning line coupled to a gate electrode of the  
6 Thin-Film Transistor and crossed to the data line to form a  
7 plurality of rectangular pixels in matrix;  
8 a pixel electrode formed at each of the pixels and  
9 coupled to a source electrode of the Thin-Film Transistor;  
10 and  
11 a sustaining electrode coupled to the pixel electrode,  
12 disposed on the pixel electrode and next to the data line  
13 and coplanar with the source electrode.

1 2. The Thin-Film Transistor array structure as claimed  
2 in Claim 1, wherein a pattern constructed by the sustaining  
3 electrode, the source electrode and the data line is  
4 designed as a mask.

1 3. The Thin-Film Transistor array structure as claimed  
2 in Claim 1, wherein the sustaining electrode is formed in  
3 an H-shaped pattern.

1 4. The Thin-Film Transistor array structure as claimed  
2 in Claim 1, wherein the pixel electrode is coupled to the  
3 pixel electrode via a contact hole.

1 5. The Thin-Film Transistor array structure as claimed  
2 in Claim 1, wherein the sustaining electrode is coupled to  
3 the pixel electrode via a contact hole.

1 6. A Thin-Film Transistor array structure, comprising:

2 a Thin-Film Transistor;  
3 a data line coupled to a drain electrode of the Thin-  
4 Film Transistor;  
5 a scanning line coupled to a gate electrode of the  
6 Thin-Film Transistor and crossed to the data line to form a  
7 plurality of rectangular pixels in matrix; and  
8 a pixel electrode formed at each of the pixels and  
9 coupled to a source electrode of the Thin-Film Transistor  
10 via a contact hole, disposed on the source electrode which  
11 is extended to the region where the pixel electrode is next  
12 to the data line.

1 7. The Thin-Film Transistor array structure as claimed  
2 in Claim 6, wherein a pattern constructed by the source  
3 electrode and the data line is designed as a mask.

1 8. The Thin-Film Transistor array structure as claimed  
2 in Claim 6, wherein the source electrode is formed in a U-  
3 shaped pattern.

1 9. The Thin-Film Transistor array structure as claimed  
2 in Claim 6, wherein the pixel electrode is coupled to the  
3 pixel electrode via a contact hole.

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